

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): An anisotropically conductive connector suitably used for, in a wafer inspection apparatus for performing electrical inspection of a great number of integrated circuits formed on a wafer, which comprises: a circuit board for inspection having a great number of inspection electrodes on a front surface thereof; and a probe card having a circuit board for connection, on the back surface of which a plurality of terminal electrodes have been formed in accordance with a pattern corresponding to a pattern of the inspection electrodes of the circuit board for inspection, and a contact member, which is provided on the front surface of the circuit board for connection, and on which a great number of contacts brought into contact with respective electrodes to be inspected of the integrated circuits on the wafer, which is an object of inspection, have been arranged, and arranged in such a manner that the terminal electrodes of the circuit board for connection are opposed to their corresponding inspection electrodes of the circuit board for inspection, electrically connecting the inspection electrodes to the respective terminal electrodes by being arranged between the circuit board for inspection and the circuit board for connection in the probe card, and

the anisotropically conductive connector comprises an elastic anisotropically conductive film composed of a plurality of conductive parts for connection each extending in a thickness-wise direction of the film and arranged in a state separated from each other along a plane direction of the film and an insulating part formed among these conductive parts for connection, and a frame plate for supporting the elastic anisotropically conductive film, wherein

the frame plate is formed of a metallic material having a coefficient of linear thermal expansion of 3×10^{-6} to $2 \times 10^{-5} \text{ K}^{-1}$, the conductive parts for connection in the elastic

anisotropically conductive film are obtained by filling conductive particles having a number average particle diameter of 20 to 80 μm and exhibiting magnetism in an elastic polymeric substance at a high density, the conductive particles have, on a surface of which, a coating layer composed of a noble metal and having a thickness of at least 20 nm, each of the conductive parts for connection has a durometer hardness of 10 to 35, and an electric resistance between conductive parts for connection adjoining each other is at least 10 M Ω .

Claim 2 (Original): The anisotropically conductive connector according to claim 1, wherein the frame plate has at least one through-hole extending in the thickness-wise direction, and the elastic anisotropically conductive film is arranged in such a manner that the conductive parts for connection thereof are located within the through-hole in the frame plate.

Claim 3 (Original): The anisotropically conductive connector according to claim 1, wherein the frame plate has a plurality of through-holes each extending in the thickness-wise direction, and the elastic anisotropically conductive film is arranged in such a manner that the conductive parts for connection thereof are located within the respective through-holes in the frame plate.

Claim 4 (Currently Amended): The anisotropically conductive connector according to ~~any one of claims 1 to 3~~ claim 1, wherein an allowable current value of each of the conductive parts for connection when the conductive part for connection is pressurized in the thickness-wise direction under a load of 20 g is at least 1 A.

Claim 5 (Currently Amended): The anisotropically conductive connector according to ~~any one of claims 1 to 4~~ claim 1, wherein an allowable current value of each of the

conductive parts for connection when the conductive part for connection is pressurized in the thickness-wise direction so as to give a distortion factor of 20% is at least 1 A.

Claim 6 (Currently Amended): The anisotropically conductive connector according to ~~any one of claims 1 to 5~~ claim 1, wherein an electric resistance of each of the conductive parts for connection in the thickness-wise direction as measured in a state that the conductive part for connection has been pressurized in the thickness-wise direction under a load of 20 g is at most 0.1 Ω , and an electric resistance of the conductive part for connection in the thickness-wise direction as measured in a state that the conductive part for connection has been pressurized in the thickness-wise direction under a load of 20 g after a cycle that the conductive part for connection is pressurized for 15 minutes in the thickness-wise direction under a load of 20 g in an environment of 80°C in temperature, and the conductive part for connection is then held for 5 minutes in an unloaded state was repeated 3,000 times is at most 0.1 Ω .

Claim 7 (Currently Amended): The anisotropically conductive connector according to ~~any one of claims 1 to 6~~ claim 1, wherein an electric resistance of each of the conductive parts for connection in the thickness-wise direction as measured in a state that the conductive part for connection has been pressurized in the thickness-wise direction so as to give a distortion factor of 20% is at most 0.1 Ω , and an electric resistance of the conductive part for connection in the thickness-wise direction as measured after a current of 1 A is applied to the conductive part for connection for 3,000 hours in a state that the conductive part for connection had been pressurized in the thickness-wise direction in an environment of 80°C in temperature so as to give a distortion factor of 20% is at most 0.1 Ω .

Claim 8 (Withdrawn): A wafer inspection apparatus for performing electrical inspection of a great number of integrated circuits formed on a wafer, which comprises:

a circuit board for inspection having a great number of inspection electrodes on a front surface thereof;

a probe card having a circuit board for connection, on the back surface of which a plurality of terminal electrodes have been formed in accordance with a pattern corresponding to a pattern of the inspection electrodes of the circuit board for inspection, and a contact member, which is provided on the front surface of the circuit board for connection, and on which a great number of contacts brought into contact with respective electrodes to be inspected of the integrated circuits on the wafer, which is an object of inspection, have been arranged, and arranged in such a manner that the terminal electrodes of the circuit board for connection are opposed to their corresponding inspection electrodes of the circuit board for inspection; and

the anisotropically conductive connector according to any one of claims 1 to 7, which is arranged between the circuit board for inspection and the circuit board for connection in the probe card to respectively electrically connect the inspection electrodes to the terminal electrodes.

Claim 9 (Withdrawn): The wafer inspection apparatus according to claim 8, wherein the three of the circuit board for inspection, the anisotropically conductive connector and the circuit board for connection are fixed in a state that the elastic anisotropically conductive film in the anisotropically conductive connector has been held and pressurized by the circuit board for inspection and the circuit board for connection, thereby the inspection electrodes in the circuit board for inspection and their corresponding terminal electrodes in the circuit board

for connection are electrically connected through the conductive parts for connection in the anisotropically conductive connector.

Claim 10 (Withdrawn): The wafer inspection apparatus according to claim 8, which comprises a pressurizing mechanism for pressurizing the circuit board for inspection to electrically connect the respective contacts of the contact member in the probe card to the electrodes to be inspected in the wafer, which is the object of inspection, wherein

the circuit board for inspection is pressurized by the pressurizing mechanism, whereby the elastic anisotropically conductive film in the anisotropically conductive connector is held and pressurized by the circuit board for inspection and the circuit board for connection, thereby the inspection electrodes in the circuit board for inspection and their corresponding terminal electrodes in the circuit board for connection are electrically connected through the conductive parts for connection in the anisotropically conductive connector.